INTERNATIONAL SEARCH REPORT

International application No

PCT/US04/37302

| A. CLASSIFICATION OF SUBJEC [MATTER | | | | | | |
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| | IPC(7) A6I F 2/02 2/06 C12N 15/09 15/63 5/00 | | | | | |
| US CL According to | 623/ 1 13 11, 15 66 435/325, 455, 424/93 2 | | | | | |
| According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED | | | | | | |
| Minimum do | ocumentation searched (classification system followed | by classification symbols) | | | | |
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| Documentation | on searched other than minimum documentation to the | ne extent that such documents are included | in the fields searched | | | |
| None | | | | | | |
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| | ata base consulted during the International search (nar ontinuation Sheet | ne of data base and where practicable, se | arch terms used) | | | |
| ricase see C | onthibution sheet | | | | | |
| | UMPN 25 CONSIDERED TO SE PELEVINI | | | | | |
| | UMENTS CONSIDERED TO BE RELEVANT | | D. L | | | |
| Category * | Citation of document, with indication, where a | `````````````` | Relevant to claim No | | | |
| ^ | US 2003/0138950 A1 (MCALLISTER et al.) 24 Ju document | 11y 2003 (24 07 2003), see entire | 1 3, 28 30, 32, 37 39 | | | |
| Y | | | 31,35,38 | | | |
| | | | | | | |
| X | US 200 1/0000802 A I (SOYKAN et al.) 3 May 200 | 1 (03 05 2001), see entire document | 1-3, 28 32, 37 39 | | | |
| Y | · · | | 35 | | | |
| • | | | 33 | | | |
| x | US 5,893,888 A (BELL) 13 April 1999 (13 04 199 | 9), see entire document | 1-3, 29, 35, 37-39 | | | |
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| Y | | | 30-32 | | | |
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| Further | documents are listed in the continuation of Box C | See patent family annex | | | | |
| | pecn1 categoiics of cit-d documents | T late document published iftu tilt, intu | Il itium I filing dale or priority | | | |
| - | - | date and not in conflict with the ipplica | ition but cited to understand | | | |
| | defining the guieral state of the an which is not considered to be lai tell a mich | the principle or theoly underlying the | invention | | | |
| T " enther O | phcation of patent published on of after the international filing | X document of particular relevance the considered novel or cannot be consider | | | | |
| d lie | presion of patent patricina on the arts are international fining | step when the document is taken alone | to the investor and investore | | | |
| "L" document | which may throw doubts on priority claim(s) or which is cited to | "Y" document of particular relevance, the | | | | |
| establish t specified) | the publication date of another citation or other special reason (as | considered to involve an inventive step combined with one or more other such | | | | |
| • | | being obvious to a person skilled in the | | | | |
| "O" document referring to an oral disclosure use exhibition or other means | | "&- document member of the same patent | family | | | |
| | published pπor to the international filing date but later than the | | | | | |
| Date of the actual completion of the international search Date of mailing of the international search | | | n report | | | |
| 19 August 20 | 05 (19 08 2005) | O NOT SUUE, | | | | |
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| | III Slop PCT Attn ISA/US | Anne Mane S Wehbe 7. Robe | its for | | | |
| PO | minissionei of Patents Box 14 50 | _ | | | | |
| Alexa | andria Virginia 22313 1450 | Telephone No (57 I) 272- 1600 | · | | | |

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Form PCT/ISA/2 10 (second sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

Internationa | application No

PCT/US04/37302

| Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet) | | | |
|---|--|--|--|
| This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons | | | |
| l Claim Nos because they relate to subject matter not required to be searched by this Authority, namely | | | |
| Claim Nos because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be car ried out specifically | | | |
| 3 2SJ Claim Nos 4 27 33 34 36 and 40 50 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6 4(a) | | | |
| Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet) | | | |
| This International Searching Authority found multiple inventions in this international application, as follows | | | |
| As all required additional search fees were timely paid by the applicant this international search report covers all searchable claims | | | |
| As all searchable claims could be searched without effort jusulying an additional tee this Authority did not invite payment of any additional lee | | | |
| As only some of the required additional search tees were timely paid by the applicant, this, international search report covers only those claims tor which fees were paid, specifically claims Nos | | | |
| No required additional search fees were timely paid by the applicant Consequently this international search report is restricted to the invention first mentioned in the claims it is covered by claims Nos | | | |
| Remark on Protest The additional search fees were accompanied by the applicant s protest | | | |
| No protest accompanied the payment of additional search tees | | | |

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| Continuation of B. FIELDS SEARCHED Item 3: DIALOG-mediune database, BRS/EAST-USPalluI, EPO, JPO, Derwint, PG-Pubs search terms implant, artificial tissue, matrix, biodegradable, cells, transfected, pacemaker, pacing, device, catheter | | | | |
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